

## **SOW for Substantial Doors**

Exterior doors for residences must be of a substantial nature (e.g., solid wooden doors, hollow steel doors, hollow interior with sheet metal facing doors) attached to equally substantial door frames.

Exterior doors come in a variety of styles. All exterior doors, at a minimum, should be of a *substantial* nature, (e.g., solid wooden doors, hollow steel doors, hollow interior with sheet metal facing doors). Outward swinging doors should have the external door hinges made non-removable. Equally as important as the door is the doorframe.

No glass inserts or glass panels next to the exterior doors.

Frame – Needs to be anchored into the structure with at least 3 inch/76.2mm screws. No gaps should exist, nor should it be flexible. Check the framing and adjacent wall for rot or other disease – cannot be installed into the rot or other issue is removed/replaced.

Hinges – The screws need to be anchored with at least 3 inch/76.2mm screws. Outward swinging doors should have the external door hinges made non-removable. Hinges that are not exposed should be secured to the frame with 3 inch/76.2mm screws.

Strike Plate – Heavy-duty metal security plate secured with at least four 3 inch/76.2mm screws.

Door Locks – Must meet American National Standards Institute (ANSI) grade 2 dead bolt locks or the local equivalent. ***Double cylinder locks must not be used due to inherent fire/life safety implications.*** Locks or latching devices must provide a releasing device that has an obvious method of operation and can be readily operated under all lighting conditions. Locks must be a multi-point locking mechanism.

For all exterior and safe haven bedroom door - New fire standards require that on the inside of the exterior door that a thumb-turn or knob lock must be utilized. During an evacuation, it is vital all occupants get out quickly and safely. A lock that requires a key to operate the door from either side must not be used due to inherent fire/life safety implications. All locks or latching devices must be operable from inside the structure without the use of a key or tool and be mounted at a height not exceeding 48 inches (1220mm) above the finished floor.

Door viewer – All exterior and master bedroom doors must have an optical/door viewer that provides a 180-degree field of view.

### **1. GENERAL INSTRUCTIONS:**

- 1.1 All work for this project will occur on Tri-Mission owned or leased housing. The contractor must visit the site in order to verify the requirements prior to the project start date.
- 1.2 The Contractor shall prepare a detailed quotation of the upgrades they plan to complete and the cost of the materials and labor to conclude the project. The Contractor shall provide the quotation (in English) to the Contracting Officer's Technical Representative (RSO) for review as soon as the Task Order has been issued. The Contracting Officer's Technical Representative (RSO) must approve these general instructions before the work is performed.
- 1.3 The Contractor shall complete all work and provide labor and materials required for all the named security upgrades. The price offered shall include all labor, materials, overhead (including cost of Workers' Compensation and Liability Insurance, which shall not be a direct reimbursement), and profit.
- 1.4 All prices are in USD\$ currency and the US Government will make payment in local currency.
- 1.5 The Contractor must provide names of all of the employees who will be working within this SOW,

including replacements, two weeks in advance to the beginning of the project. They will provide a copy of their certificates of conduct from the commune in which they reside. Those personnel must pass an Embassy security check and if they do not they will need to be replaced by the Contractor with cleared personnel.

## **2. EXECUTION:**

### **2.1 REQUIREMENTS**

The quality of maintenance and appearance of the grass, shrubbery, garden areas, trees, walkways and related landscape elements is important to the U.S. Mission. Any removal or destruction of grass, shrubbery, garden areas, walkways, etc will need to be refurbished prior to the end of the project by the Contractor at the Contractor's cost.

The requirements include, providing all labor materials such as: uniforms, footwear, rain gear, personal protective equipment. Contractors shall provide equipment, tools, and services required to provide professional construction, replacement and installation of materials included under 'specific details'. Construction materials (doors, windows, grills, etc) must be inspected by the designated embassy employee before installation.

In general the work includes all items listed under 'specific details', but is not limited to these items.

### **2.2 SPECIFIC DETAILS**

**A. All specific doors, and safehaven doors that must be upgraded will be provided as they become available.**

**B. Replacement of all exterior doors and frames**

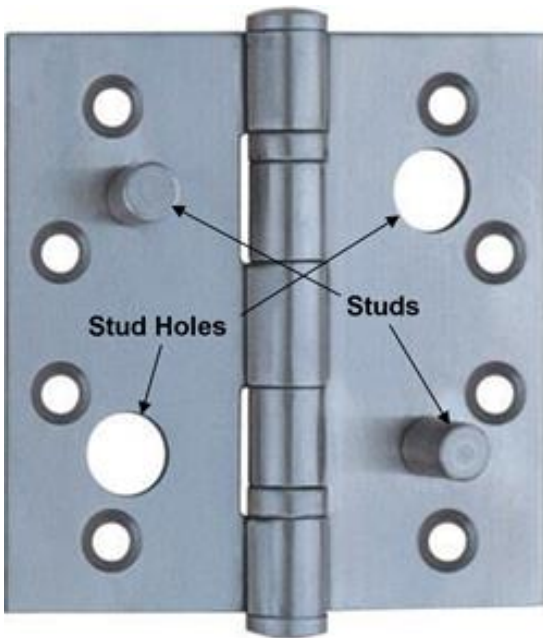
- I. The contractor must complete and understand all requirements of the RSO five (5) min force protection standards test for SOW, which contains the certification testing standards and performance requirements of RSO approved resistant doors.
- II. Door and Installations Codes: Door composition: Hollow Metal with Mineral Core. Forced Entry Rating: 5 minutes.
  - i. Replacement of doors, work can be summarized as follows:
  - ii. Install RSO approved 5 minutes resistance door assemblies only into a steel substrate and in such a manner that allows for future frame adjustment. This may be either a structural steel wall or other structural steel assembly, steel embed in concrete, or a steel sub-frame attached to concrete or masonry.
  - iii. Install the assemblies in compliance with recommendations and instructions of SDI-100 and SDI-105.
  - iv. At fire-rated door openings, comply with NFPA Standard No. 80.
  - v. Install each embed plate or sub-frame level, plumb and square.
  - vi. No part of the forced entry lock (FEL) may be altered including but not limited to grinding, cutting or re-welding any part of the FEL strike, strike plate (steel couple with vertical slot welded to the frame) and strike plate receiver (vertical slot in door leaf). No part of the RSO approved door may be altered. The only acceptable fix for defective or altered parts is to unbolt the altered piece and replace altered piece in its entirety.
  - vii. Replace temporary bolts with permanent bolts.
  - viii. Torque frame bolts to exactly 47.5 Nm (35 ft./lbs.). Insert shims at bolt locations. Finish materials shall not overlap door frame/sub-frame and ballistic trim bars unless finish materials can be easily removed and reinstalled. Any overlapping finish work (e.g. metal, wood, and stone) shall be capable of removal without damaging the door frame and surrounding finishes. Install

door and frame such that removal of the door and frame is possible without demolishing the finishes and trim, and such that door is capable of future adjustments of 6-mm in or out of opening.

- ix. Installer in coordination with manufacturer shall ensure any decorative cladding around electromagnetic lock on door frame allows lock position to be adjusted in both directions.
  - x. Install door frame head level and non-hinge side jamb plumb and square.
  - xi. Ensure each lockset, deadbolt and panic exit device is able to fully engage and freely operate.
  - xii. Eliminate any door leaf bounce on frame.
  - xiii. Install each door closer in accordance with the manufacturer's instructions.
  - xiv. Evenly install shimming of RSO approved products that utilize a continuous type hinge; uneven shimming is not acceptable.
- III. Anchorage: The door manufacturer shall provide anchors appropriate for substrate to which door frame and sub-frame is to be fastened. Door frames shall have pre-drilled horizontally slotted bolt hole patterns not to exceed 300 mm on center. The manufacturer shall verify substrates involved, and supply any special fastening tools (e.g., special drill, bit, tap) required by anchoring system. The anchor shall be acceptable for shock/short duration loading, and have potential for removal and re-installation during life of building.
- i. Avoid cutting rebar during concrete sub-frame installation.
  - ii. Provide 1.5 mm (1/16 inch) thick plastic shims with break-off tabs for rough opening (RO) frame clearance.
  - iii. Match finish of cap plugs used in frame with frame finish to the maximum extent possible.
- IV. Adjust and Clean:
- i. Upon request of COR, remove protective coverings and clean exposed surfaces. Repair damaged elements, restore abraded surfaces, touch-up base-coat paint finish with air drying primer, and remove imperfections from exposed natural metal finishes.
  - ii. Check and readjust hardware, devices, and accessories with door-to-frame-and-sill/threshold clearances set for proper operation of locks, door seals, and other operational units. Do not remove permanently applied performance labels.
  - iii. Comply with "Door Hardware" section requirements for protection and handling of keys, locking devices, and associated information.
  - iv. Exercise extreme care in cleaning exposed surfaces of polycarbonate; comply with manufacturer's directions.
  - v. Replace any continuous hinges with squeaks. Field lubrication of the hinge as a solution for eliminating squeaks is not acceptable.
  - vi. Adjust each door closer in accordance with the manufacturer's instructions.
  - vii. Adjust automatic door operators in accordance with the manufacturer's instructions to meet accessibility requirements of RSO.

All exterior doors on the compound's homes must be replaced with an RSO approved 5 min forced entry resistant door/frames.

Safe Haven doors located within interior of residents must be replaced with RSO approved 5 min forced entry resistant doors/frames. Doors must possess T-Locking system technology and be made with solid material and include an eye viewer, **(NO GLASS OR WINDOW SHOULD BE INCLUDED ON THE SAFE HAVEN DOORS.) Example of desired design:**



**KEY CONTROL.** The Contractor shall receive, secure, issue and account for any keys issued for access to buildings, offices, equipment, gates, etc. for the purpose of his contract. The contractor shall not duplicate and keys without the COR's approval. Where it is determined that the Contractor or its agents have duplicated a key without permission of the COR, the Contractor shall remove the individual(s) responsible from this contract. If the Contractor has lost any such keys. The Contractor shall immediately notify the COR. In either event, the Contractor shall reimburse the U.S. Government for the cost of rekeying that portion of the system.